

DRILL HOLES

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PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing mast arm Traffic Control Signal with street lighting and interconnect at the intersection of MD 355 (Frederick Rd) and MD 118 (Germantown Rd) in Montgomery County. The eastbound MD 118 (Germantown Rd) approach shall be restriped so that there are two right turn lanes. MD 355 (Frederick Rd) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- 1. The intersection shall continue to operate in a NEMA eight-phase, semi-actuated mode, with the MD 355 (Frederick Rd) approaches running concurrently. Exclusive left turn phases for both approaches of MD 355 (Frederick Rd) shall remain in operation. The Countdown pedestrian phases with pushbutton actuation shall continue to be provided across both legs MD 355 (Frederick Rd). The Countdown pedestrian phases across MD 118 (Germantown Rd) shall remain on recall. Farside sampling stations shall continue to be provided on both legs of MD 355 (Frederick Rd) and also on the west leg of MD 118 (Germantown Rd) at this intersection. The Exclusive left turn phases shall remain in operation for both approaches MD 118 (Germantown Rd). A new right turn concurrent phase shall be installed for the eastbound approach of MD 118 (Germantown Rd). The MD 118 (Germantown Rd) approaches shall continue to run concurrently.
- 2. The existing full-traffic-actuated, eight-phase controller with video interface, L.A.U. and L.A.U. Panel and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

III. SPECIAL NOTES

- 1. The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
- 2. Disconnecting and splicing of interconnect cable shall be performed by Montgomery County Forces. The contractor shall run the interconnect cable into the base of each cabinet and properly tag the cable. All controller cabinet wiring will be performed by Montgomery County Forces. Contact Kamal Hamud at (240) 777-8761 seventy-two hours in advance of intended work.
- 3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

The contacts for Montgomery County and SHA are as follows:

- Ms. Maria Bhatti, Team Leader (MD) - Traffic, Phone: (301) 513-7465
- Mr. Robert Snyder, Assistant Chief, Traffic Operations Division, Phone: (410) 787-7631
- Mr. Kamal Hamud, Mont. County DOT, 240-777-8761
- Mr. Mark Shaffer, Assistant District Engineer - Maintenance, Phone: (301) 513-7304
- Mr. Bob Ricketts, Signal Shop (Mont Co.), 301-279-1291
- Mr. Victor Grafton, District Utility Engineer, Phone: (301) 513-7350
- Mr. Sonny Bailey, Manager, Sign Operations, 410-787-7670

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY THE SHA

There is no equipment to be furnished by the SHA.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

Table with 3 columns: SPEC. NUMBER, DESCRIPTION, QUANTITY. Lists items like LED traffic signal heads, aluminum signs, pavement markings, and electrical cables.

EQUIPMENT LIST (CONT.)

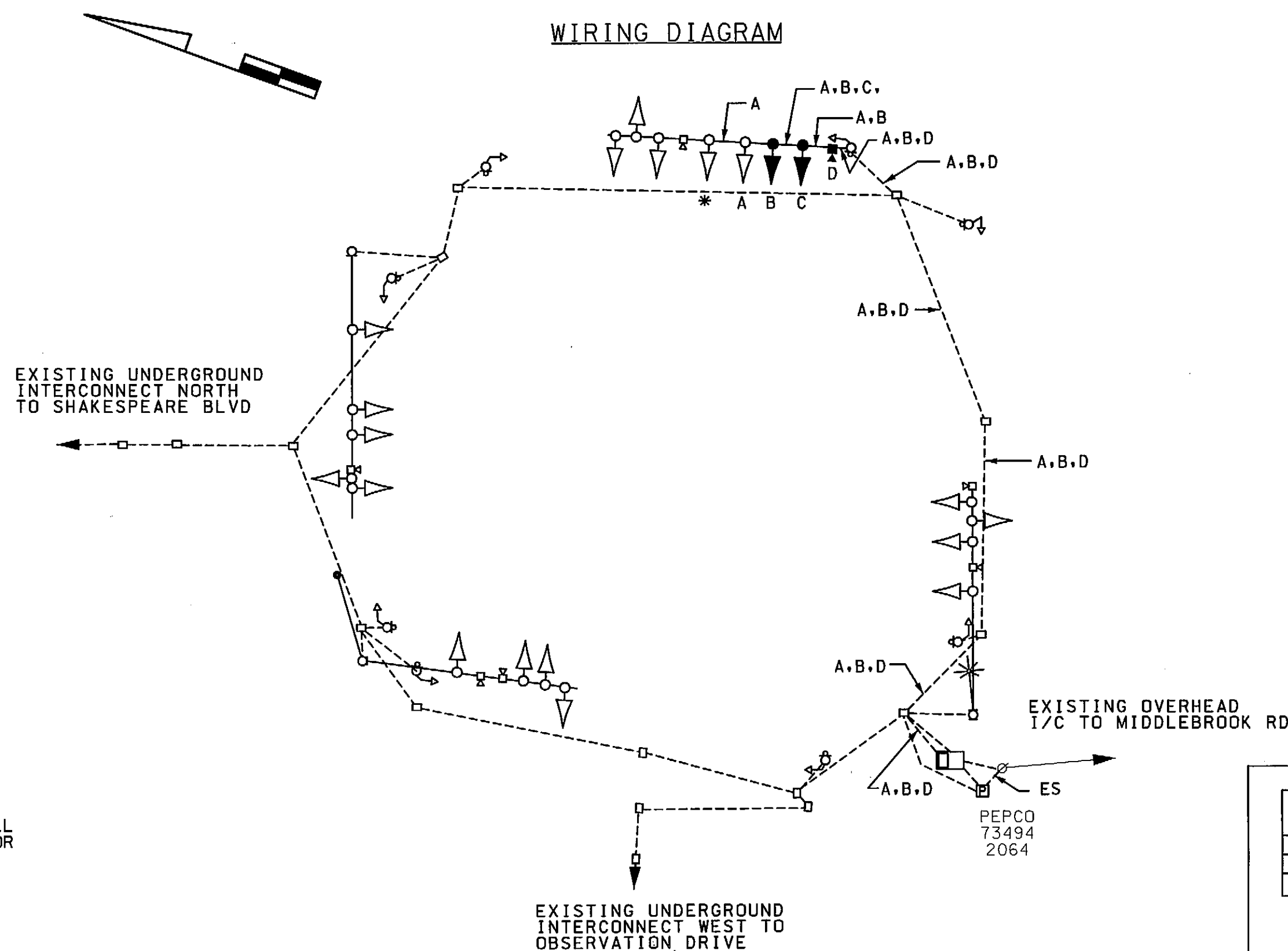
C. EQUIPMENT TO BE REMOVED

ALL EQUIPMENT TO BE REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR

PHASE CHART

Large table showing traffic signal phases (e.g., PHASE 1 AND 5, PHASE 2 AND 6) and their corresponding timing and sequence for 28 different signal heads.

WIRING DIAGRAM



WIRING KEY: A) 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.), B) CONTROL CABLE (CAMERA TO CONTROLLER) UP TO 500', D) CONTROL CABLE (CAMERA TO CONTROLLER) UP TO 500', * - USE EXISTING CABLE, ES - EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY PEPCO

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION. MD 355 (FREDERICK RD) AND MD 118 (GERMANTOWN RD) GERMANTOWN, MD

GENERAL INFORMATION SHEET. SCALE NONE, DATE 9/19/12, CONTRACT NO. BW996M82. DESIGNED BY R.R.Z., COUNTY MONTGOMERY, DRAWN BY R.C., LOGMILE 15011807.39, CHECKED BY, TIMS NO. L579, F.A.P. NO., TOD NO.

ST STREET TRAFFIC STUDIES, LTD. 400 Crain Hwy., NW, Glen Burnie, MD 21061. Ph (410) 590-5500 Fax (410) 590-6637

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